

# AJAX



## KeyPad Plus

# Wireless keypad

supporting encrypted contactless cards and key fobs



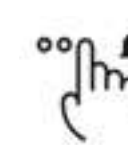
Wireless touch keypad



DESFire® support



Security modes indication



Duress code



Jeweller

Adjustable ping from **12 c**

Two-way communication at a distance of **1 700 m**

Up to **4.5 years** of battery life

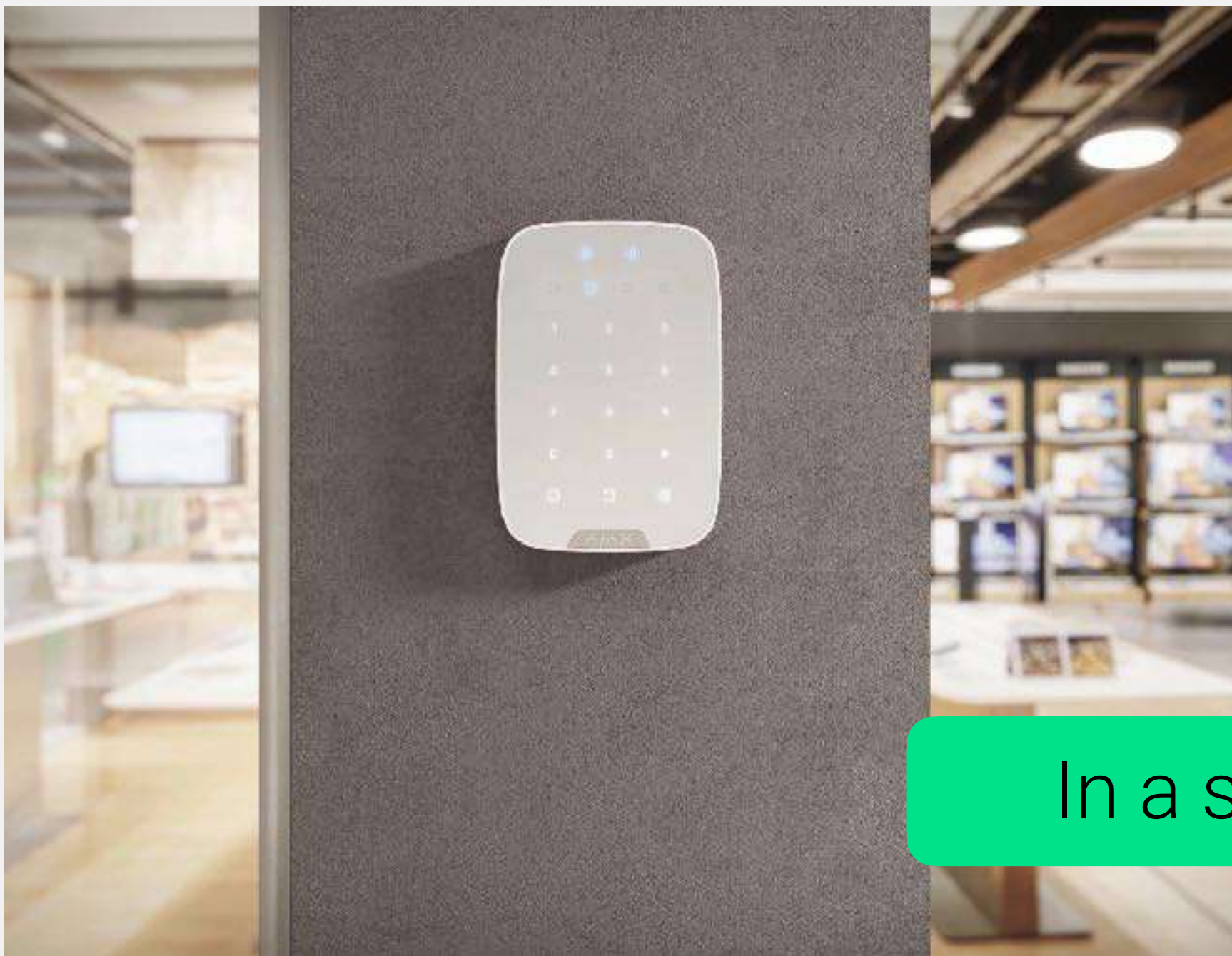
Advanced antisabotage protection



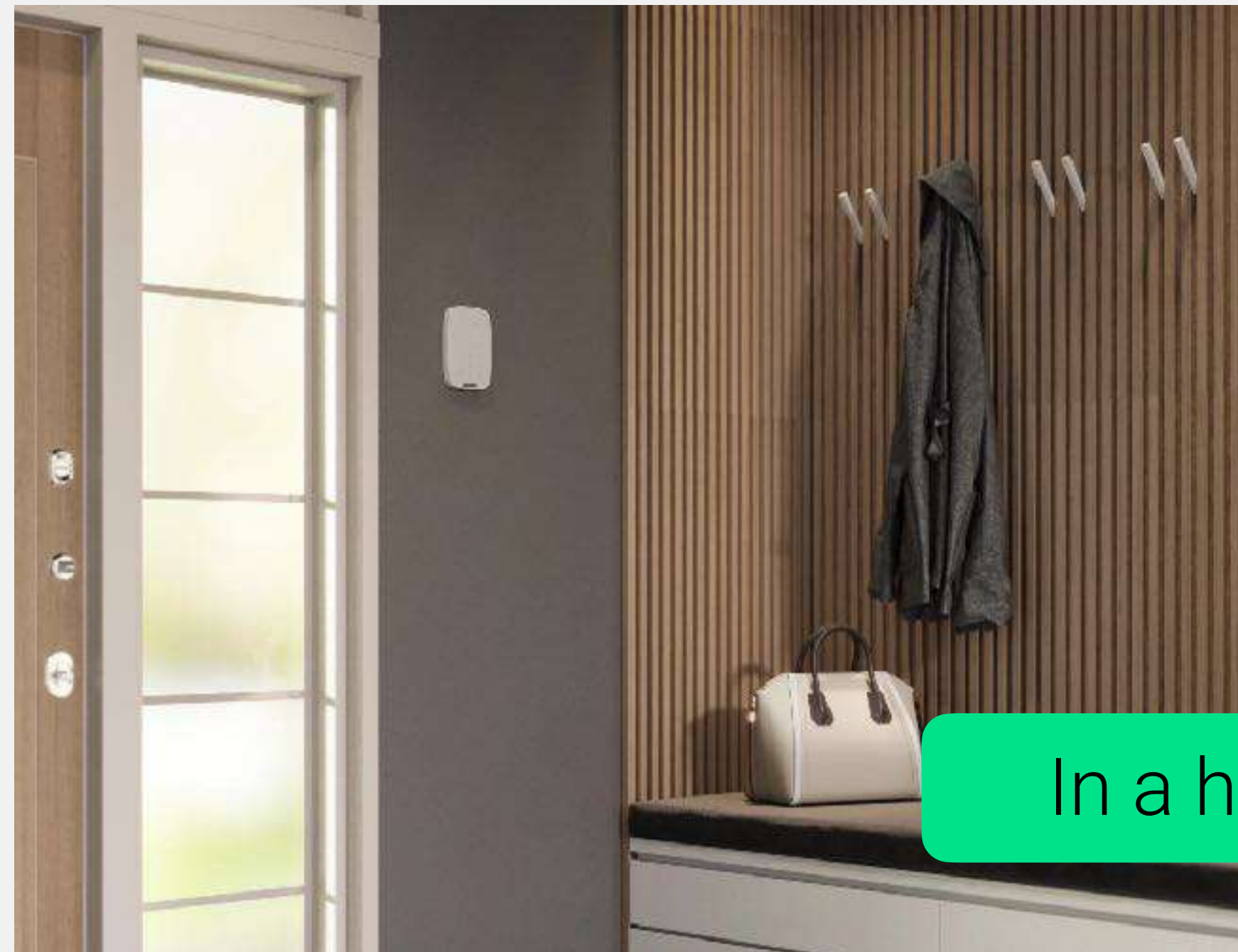
In an apartment



In an office



In a shop



In a house



# Contactless control

- Arm and disarm Ajax
- Activate **Night Mode**
- Manage specific groups with a **Pass** card or брелок a Tag key fob

Combination of design, advanced encryption technology, and elaborated user experience for the most straightforward and protected security management





# Top-tier data protection

To identify users quickly and securely, KeyPad Plus features the DESFire® technology

ISO 14443

128-bit  
encryption

Copy  
protection



DESFire®

1

2

3





# MIFARE® DESFire®

## Memory

Up to 8 KB built-in memory that allows you to store user data and access keys to multiple security systems.

## Encryption

Triple DES encryption and AES hardware encryption with 128-bit key

## Use

Systems with multi-level access in government, international and military institutions; in transportation systems of European capitals and access systems at NASA

It will take several supercomputers and millions of years to hack





# Remote access control

Instant blocking of access

Personal passcodes

Event log

- **Personal passcodes**

to know who and when disarmed the system: a username is displayed in the notification and in the event log.

- **Pass or Tag**

can also be assigned to a specific user **with defined permissions to control security** of specific groups or the entire site.

- **Ajax app**

allows you to **manage access permissions** — limit, extend, or instantly block access.







# Adding users

When adding Tag or Pass **you do not need to create Ajax accounts for new users** – you just need to name a device and define access permissions.

Delegate access to the system control to temporary employees or incoming staff is easy

Ajax systems support

up to 200 Tag

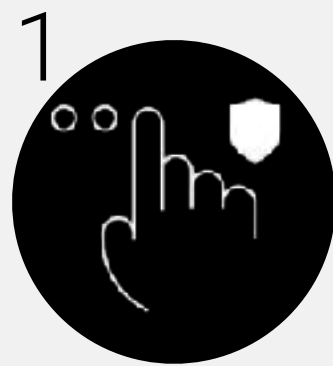
or

up to 200 Pass



# Duress code

Allows you **to simulate disarming** via KeyPad Plus. The user is not disclosed by sirens, the app and the keypad indication, but the alarm signal is instantly transmitted to a central monitoring station



Duress code is entered



System transmits Silent Alarm event

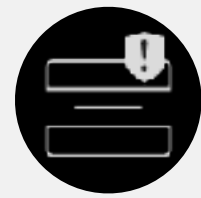


CMS calls a patrol

Silent alarm transmission if attackers force to disarm the system



# Multilevel anti-sabotage system



## Tamper

Users and a security company receive a notification when someone removes the keypad from the mount



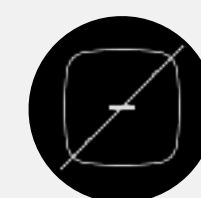
## Blocking when guessing a passcode

Three wrong passcodes entered in a row block the keypad and trigger an alarm



## Authentication

If there is an attempt to use an invalid card or key fob, the system activates an alarm



## Polling intervals

The system detects the communication loss with the keypad in less than a minute



# Outstanding autonomy



Daily use

KeyPad

Up to 2 years

KeyPad Plus with reader enabled

Up to 3,5 years

KeyPad Plus with reader disabled

Up to 4,5 years



## Security mode indication

- Light and sound indication allows controlling the security status without the Ajax app
- The volume and brightness of the backlight is adjustable.



Armed



## Security mode indication

- Light and sound indication allows controlling the security status without the Ajax app
- The volume and brightness of the backlight is adjustable.



Disarmed



## Security mode indication

- Light and sound indication allows controlling the security status without the Ajax app
- The volume and brightness of the backlight is adjustable.



Night mode



## Security mode indication

- Light and sound indication allows controlling the security status without the Ajax app
- The volume and brightness of the backlight is adjustable.



Malfunction  
detected



# Tech specs

---

| Compatibility                          | Hub Plus, Hub 2, Hub 2 Plus, ReX                                                                                                                                                                                                       |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal passcodes                     | Yes                                                                                                                                                                                                                                    |
| Passcode guessing protection           | Yes                                                                                                                                                                                                                                    |
| Duress code                            | Yes                                                                                                                                                                                                                                    |
| Contactless access                     | DESFire® EV1, EV2   ISO14443-A (13.56MHz)                                                                                                                                                                                              |
| Operating temperature range   Humidity | From -10°C to +40°C   Up to 75%                                                                                                                                                                                                        |
| Temperature sensor                     | Available                                                                                                                                                                                                                              |
| Jeweller radio technology              | Communication range with a hub – up to <b>1.700 m</b>   Two-way communication<br>Self-adjusting RF output power – up to 20 mW<br>Block encryption with a dynamic key<br>Detector polling period – <b>12–300 s</b><br>Frequency hopping |
| Anti-sabotage                          | Authentication, jamming detection, tamper notifications                                                                                                                                                                                |
| Power supply                           | Batteries: 4 lithium AA (FR6)<br>Voltage 1.5V<br>Battery life: up to 4.5 years                                                                                                                                                         |

# AJAX

## Tag

Encrypted contactless key fob  
for keypad





## Quick access to the security system

Copy-protected key fob allows you to manage security modes **without a password, user account and access to the Ajax app**

To disarm the security system, just present Tag to the reader on the keypad





# One key for home and office



One Tag can be connected to 13 hubs

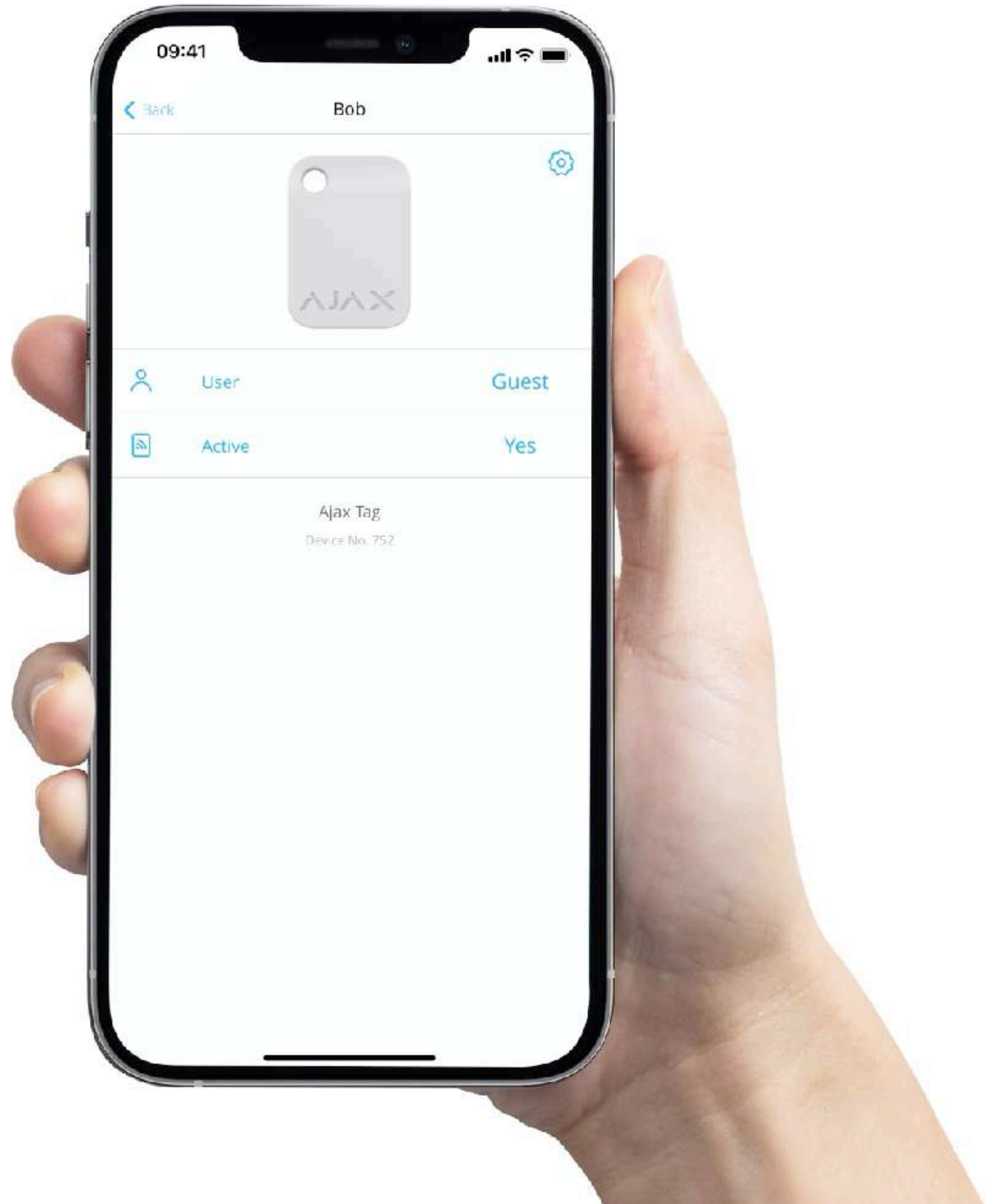


# Full control in the app

In the app, you can set the name and access permissions for each key fob

- **Flexible settings of access permissions**

A system administrator can revoke or restrict Tag access permissions in real time





## Full control in the app

In the app, you can set the name and access permissions for each key fob

- Informative notifications
- Log of events

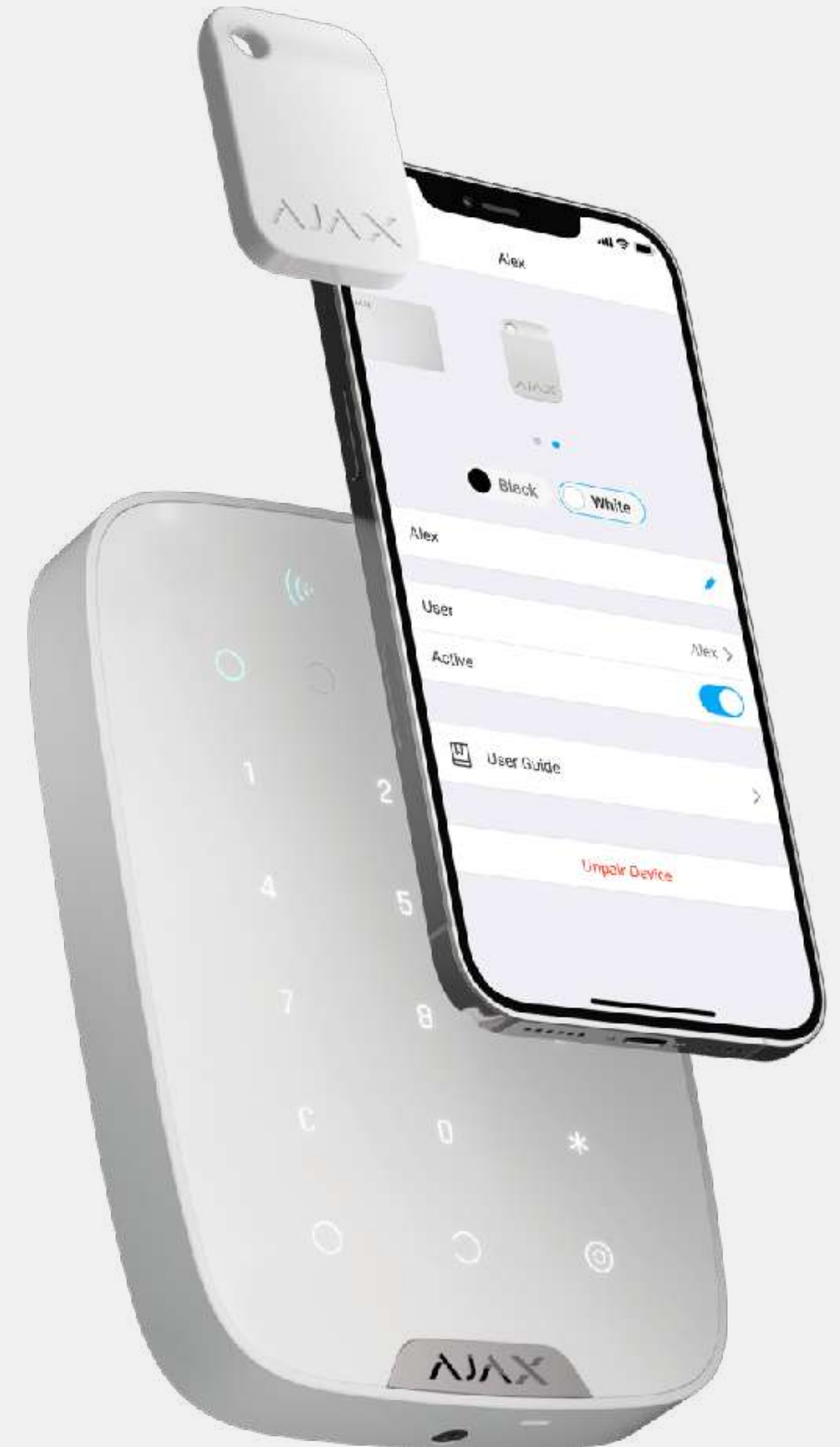
You always know who and when changed the security mode  
– every action is recorded in the event log





## Effortless connection

To add Tag to the system, all you need is to open the Ajax app, go into the settings and present the key fob to the keypad.



# AJAX

## Pass

Encrypted contactless card  
for keypad







## Quick access to the security system

Copy-protected card allows you to manage security modes **without a password, user account and access to the Ajax app**

To disarm the security system, just present Pass to the reader on the keypad





# One key for home and office



One Pass card can be connected to 13 hubs

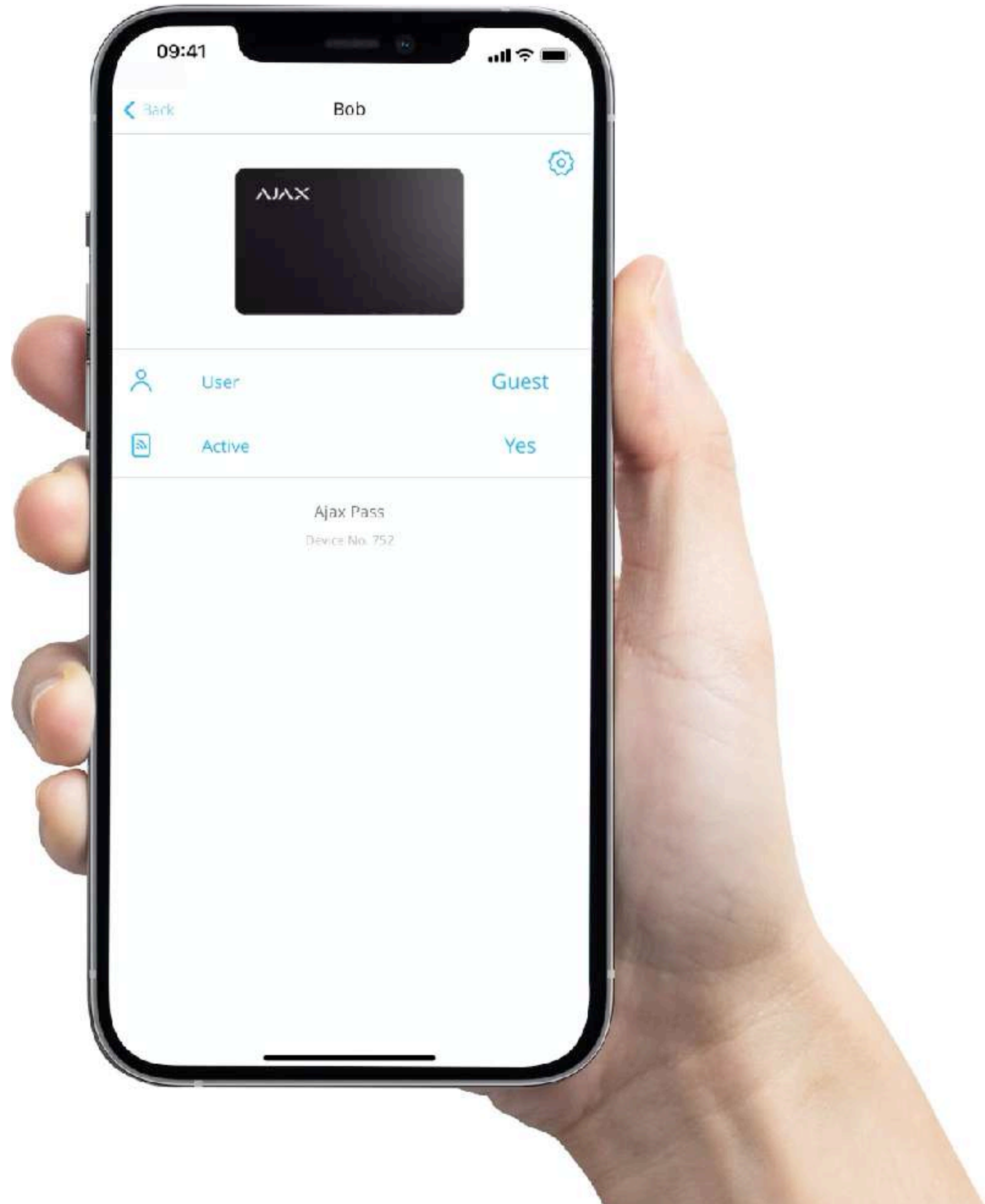


# Full control in the app

In the app, you can set the name and access permissions for each card.

- **Flexible settings of access permissions**

A system administrator can revoke or restrict Pass access permissions in real time





## Full control in the app

In the app, you can set the name and access permissions for each card.

- Informative notifications
- Log of events

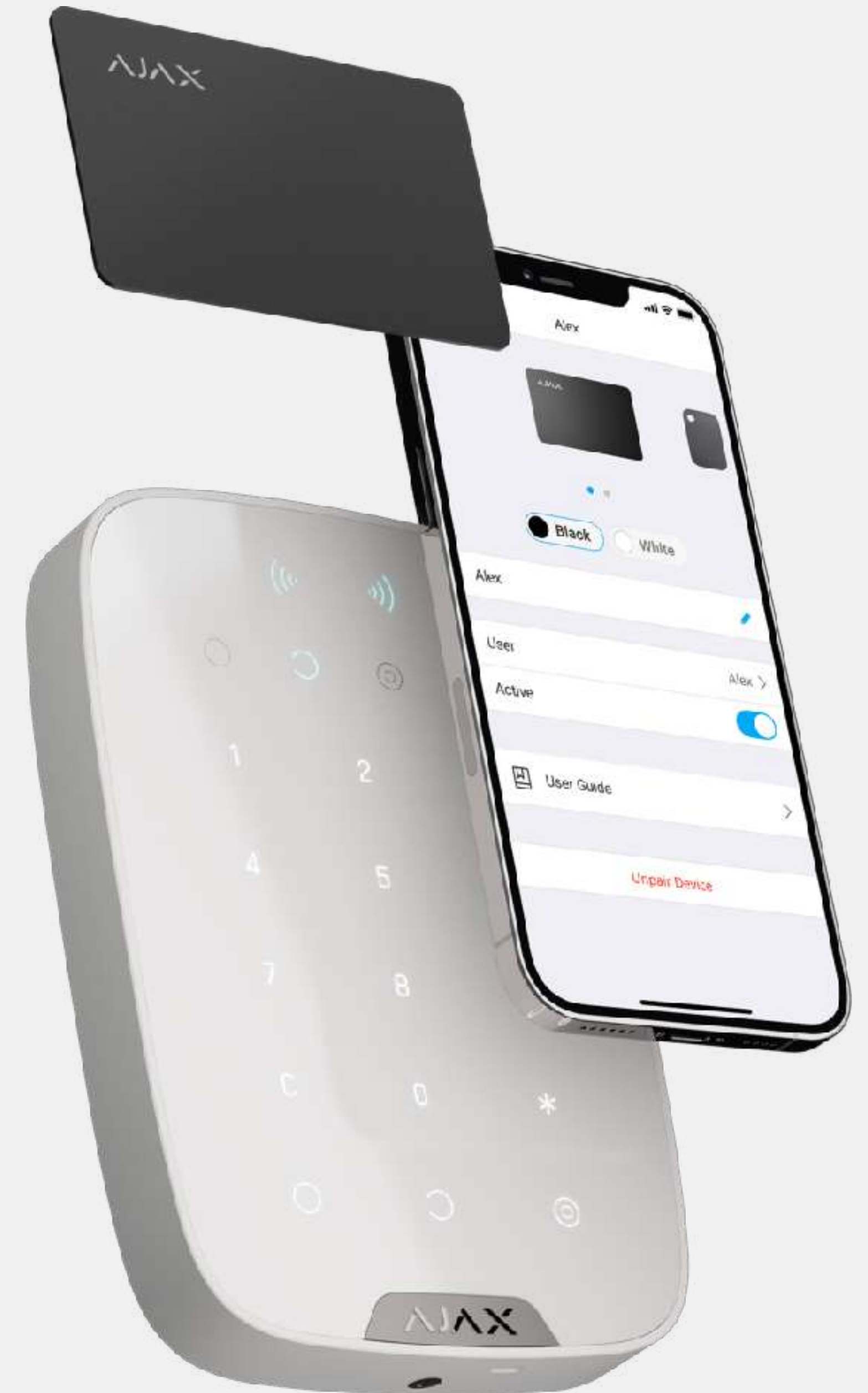
You always know who and when changed the security mode – every action is recorded in the event log





## Effortless connection

To add Pass to the system, all you need is to open the Ajax app, go into the settings and present the card to the keypad



Thank you

[ajax.systems](http://ajax.systems)